

CLAIMS

What is claimed is:

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1. A method of managing phone calls on a personal digital assistant having a phone device, the method comprising: receiving an incoming call signal from a telephone network; checking an attachment status of a speaker device; and diverting the incoming call to a voicemail application if the speaker is not attached.
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2. The method of Claim 1, wherein the speaker device is an earplug.
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3. A method of managing phone calls to a phone device of a personal digital assistant, wherein the phone call is transmitted from a device in a mobile phone network, the method comprising: determining a status of a radio switch of the personal digital assistant; determining a status of a network coverage of the phone device of the personal digital assistant; and
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managing a phone call to the phone device, wherein
managing the phone call is based on the status of
the radio and the status of the network coverage.

- 5 4. The method of Claim 3, wherein the step of managing
comprises receiving the phone call if the status of the
radio switch is on and if the status of the network
coverage is sufficient for the phone device to maintain
a connection with the mobile phone network.

- 10 5. The method of Claim 3, wherein the step of managing
comprises receiving the phone call if an earplug device
is plugged in, wherein the earplug device is plugged in
if the earplug device is electrically connected to the
15 personal digital assistant and is configured to emit
sound waves related to signals received from the
personal digital assistant.

- 20 6. The method of Claim 3, further comprising initiating a
voicemail application.

7. The method of Claim 3, further comprising:
receiving a voicemail notification from the mobile
phone network; and

displaying a voicemail notification message.

8. The method of Claim 3, further comprising:

receiving caller data of the phone call, wherein the
5 caller data includes information on a phone number
associated with the phone call, and information on
a name associated with the phone number; and
displaying an incoming message, wherein the incoming
message includes information related to the caller
10 data.

9. The method of Claim 8, wherein the information on the
phone number is any of identifiable and unidentifiable,
and wherein the information on the name is any of
15 identifiable and unidentifiable.

10. The method of Claim 3, further comprising:

receiving a silence signal; and
initiating a silence routine, wherein the silence
20 routine is configured to send the phone call to a
voicemail application.

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11. The method of Claim 3, further comprising initiating an answer routine, wherein the answer routine is configured to initiate:

5 starting a timer configured to clock a period of time the phone call is being answered by the phone device of the personal digital assistant; and displaying the caller data.

12. The method of Claim 3, further comprising:

10 suspending a current application other than a call device, wherein the call device is configured to be active if the phone call is being answered; and initiating the call device.

15 13. A personal digital assistant including a phone device, the phone device comprising:

a receiver configured to receive a phone call transmitted from a device in a mobile phone network;

20 a radio switch detector configured to determine a status of a radio switch of the personal digital assistant; and

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a network coverage detector configured to determine a status of a network coverage of the phone device in the mobile phone network.

5 14. The personal digital assistant of Claim 13, further comprising an earplug device detector configured to determine if an earplug device is electrically connected to the personal digital assistant.

10 15. The personal digital assistant of Claim 13, further comprising:
a display device; and
a tap recognizer connected to the display device,
wherein the tap recognizer is configured to
15 initiate a voicemail application.

20 16. The personal digital assistant of Claim 13, further comprising:
a display device; and
a tap recognizer connected to the display device,
wherein the tap recognizer is configured to answer the phone call and to initiate a call application.

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A computer-readable medium carrying one or more sequences of one or more instructions for managing a phone call to a phone device of a personal digital assistant, the one or more sequences of one or more instructions including instructions which, when executed by one or more processors, cause the one or more processors to perform the steps of:

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determining a status of a radio switch of the personal digital assistant; and
determining a status of a network coverage of the phone device of the personal digital assistant.

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The computer-readable medium as recited in Claim 13, wherein if the radio switch is on, the phone device is capable of receiving the phone call, and wherein if the network coverage is adequate, the signal strength of the phone call is sufficient for the phone device to maintain a connection with the mobile phone network..

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The computer-readable medium as recited in Claim 13, wherein the instructions further cause the processor to carry out the step of determining a status of an earplug device, wherein if the earplug device is plugged in, the earplug device is electrically connected to the personal digital assistant and is

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configured to emit sound waves related to signals received from the phone device of the personal digital assistant.

5 ²⁰ 16. The computer-readable medium as recited in Claim ¹⁹ 13, wherein the instructions further cause the processor to carry out the step of initiating a voicemail application.

10 ²¹ 17. The computer-readable medium as recited in Claim ¹⁷ 13, wherein the instructions further cause the processor to carry out the steps of:
receiving a voicemail notification from the mobile
phone network; and
15 displaying a voicemail notification message.

20 ²² 18. The computer-readable medium as recited in Claim ¹⁷ 13, wherein the instructions further cause the processor to carry out the steps of:
receiving caller data of the phone call, wherein the
caller data includes information on a phone number
associated with the phone call, and information on
a name associated with the phone number; and

displaying an incoming message, wherein the incoming message includes information related to the caller data.

5 ²³~~19~~. The computer-readable medium as recited in Claim ²²~~18~~, wherein the information on the phone number is any of identifiable and unidentifiable, and wherein the information on the name is any of identifiable and unidentifiable.

10 ²⁴~~20~~. The computer-readable medium as recited in Claim ¹⁷~~13~~, wherein the instructions further cause the processor to carry out the step of initiating a silence routine, wherein the silence routine is configured to send the phone call to a voicemail application.

15 ²⁵~~21~~. The computer-readable medium as recited in Claim ¹⁷~~13~~, wherein the instructions further cause the processor to carry out the step of initiating an answer routine, wherein the answer routine is configured to cause the processor to carry out the steps of initiate:

starting a timer configured to clock a period of time the phone call is being answered by the phone device of the personal digital assistant; and

25 displaying the caller data.

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The computer-readable medium as recited in Claim ¹⁷~~13~~, wherein the instructions further cause the processor to carry out the steps of:

suspending a current application other than a call device, wherein the call device is configured to be active if the phone call is being answered; and initiating the call device.

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